

WE CLAIM:

Sub
PO

1. A vehicle radiator device in which a radiator comprising:
a first tank and a second tank coupled through a heat radiation core are
mounted onto an engine in a power unit supported by a vehicle body frame;

said first tank communicates to an inlet of a water jacket of said engine and
said second tank communicates to an outlet of said water jacket;

wherein said first and second tanks of said radiator are made of synthetic
resin, and said radiator is mounted to said engine through a shroud made of elastic
material for conducting cooling wind of said radiator.

2. The vehicle radiator device according to claim 1, wherein said shroud is fixed
to said engine by means of a fastening member, and further including a conduit for
communicating fluid between said radiator and said water jacket, said conduit includes
a first end fitted in a connecting hole provided on said radiator and a second end fitted
in a connecting hole in said engine.

3. The vehicle radiator device according to claim 1, wherein said radiator and
said shroud are connected to each other by means of rivets.

4. The vehicle radiator device according to claim 2, wherein said first and said
second tank are a lower tank and a upper tank respectively, said heat radiation core
being disposed between said upper tank and said lower tank through which said tanks
are integrally combined while their interiors communicate with each other.

10024560-122101

Sub
P2

5. The vehicle radiator device according to claim 4, and further including a first coupled protruding piece extending from a upper side of said heat radiation core and a second coupled protruding piece extending from a lower side of said heat radiation core, respectively, said first and second coupled protruding pieces being coupled by sealing members to said upper tank and said lower tank.

6. The vehicle radiator device according to claim 4, wherein said radiator is inclined toward a forward direction of said vehicle by an angle β with respect to the horizontal so that a water cap is arranged at an upper most position of said upper tank, and a connecting pipe for connecting to said inlet of said water jacket is arranged at a lowermost position of said lower tank.

7. The vehicle radiator device according to claim 4, wherein elastic sealing members are provided at both end portions of said conduit for connecting to said connecting hole of said water jacket and said connecting hole of said upper tank respectively, said elastic sealing members allowing for relative displacement between the engine and the radiator when said engine vibrates.

8. A vehicle radiator device in which a radiator comprising:

a first tank and a second tank coupled through a heat radiation core mounted onto an engine in a power unit, which is rockably coupled to a vehicle body frame in an up-and-down direction through a pivot shaft and is supported through a rear shock absorber;

10024560-122101

July 1982
said first tank communicates to an inlet of a water jacket of said engine and said second tank communicates to an outlet of said water jacket;

wherein said first and second tanks of said radiator are made of synthetic resin, and said radiator is mounted to said engine through a shroud made of elastic material for conducting cooling wind of said radiator.

9. The vehicle radiator device according to claim 8, wherein said shroud is fixed to said engine by means of a fastening member, and further including a conduit for communicating fluid between said radiator and said water jacket, said conduit includes a first end fitted in a connecting hole provided on said radiator and a second end fitted in a connecting hole in said engine.

10. The vehicle radiator device according to claim 8, wherein said radiator and said shroud are connected to each other by means of rivets.

11. The vehicle radiator device according to claim 9, wherein said first and said second tank are a lower tank and a upper tank respectively, said heat radiation core being disposed between upper tank and said lower tank through which said tanks are integrally combined while their interiors communicate with each other.

12. The vehicle radiator device according to claim 11, and further including a first coupled protruding piece extending from a upper side of said heat radiation core and a second coupled protruding piece extending from a lower side of said heat radiation

10024560-122101

core, respectively, said first and second coupled protruding pieces being coupled by sealing members to said upper tank and said lower tank.

13. The vehicle radiator device according to claim 11, wherein said radiator is inclined toward a forward direction of said vehicle by an angle β with respect to the horizontal so that a water cap is arranged at an upper most position of said upper tank, and a connecting pipe for connecting to said inlet of said water jacket is arranged at a lowermost position of said lower tank.

14. The vehicle radiator device according to claim 11, wherein elastic sealing members are provided at both end portions of said conduit for connecting to said connecting hole of said water jacket and said connecting hole of said upper tank respectively, said elastic sealing members allowing for relative displacement between the engine and the radiator when said engine vibrates.

10024560-122101

Sub
B2